Resistance Calculator

036

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This is a project that doesn't require any soldering. It is a resistance calculator made from cardboard, which can be used to determine the value of a resistor from the coloured bands and vice versa.

Building the calculator couldn't be simpler. First scan and print this page (or cut it out), glue everything to a reasonably light piece of cardboard and then cut out the individual discs and the main body. Cut out the small windows in the body piece and then fold it along the heavy line, so that the markings are to the outside.

Secure the discs in the body using paper fasteners. The locations of the fasteners are marked on the body by dots, and the crosshatched areas must be cut out.

The first two numbers must be multiplied by the third number. The fourth ring gives the tolerance of the resistance in percent. The first two discs have coloured segments with the following colours (in the order listed): black, brown, red, orange, yellow, green, blue, violet, grey and white. Disc 3 has the following colours: black, brown, red, orange, yellow, green, blue, violet, silver and gold. The fourth disc has green, brown, red, gold, and silver. To finish everything off, fasten the edges using Sellotape, and your calculator is ready for use.

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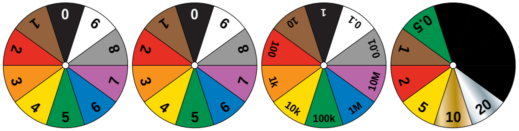

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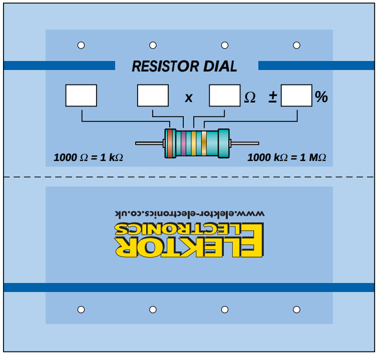

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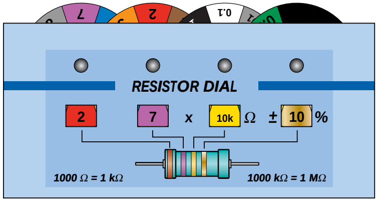

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